

**FOREST HEALTH PROTECTION INTERNATIONAL ACTIVITIES**  
**ACCOMPLISHMENT REPORT FOR 2000 – 2001**

**Prepared by the**  
**Forest Health Protection International Activities Team**

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## FOREST HEALTH PROTECTION INTERNATIONAL ACTIVITIES FOR 2000 – 2001

### Summary

During FY 2000 – 2001, Forest Health Protection specialists were involved in approximately 41 activities in 23 countries. These activities included, providing technical assistance and training, cooperating in studies, gathering information on pest risk assessments, giving presentations and participating in international meetings. Funding came from a variety of sources including FHP staff units and International Activity Team (IAT) funds, Forest Service International Programs (IP), USAID, and hosting countries.

The IAT had two specific focus areas in 2000-2001. These were:

1. Cooperation and assistance to Empresa Brasileira de Pesquisa Agropecuaria (EMBRAPA) in Brazil with *Sirex noctilio*, and
- ~~1~~2. Technical assistance and cooperation with Mexico.

*Sirex noctilio*, an introduced wood wasp, has caused considerable damage to pine plantations in Brazil, and could potentially cause serious damage in other countries as well, including Argentina, Uruguay, and Chile. It is also considered a high risk pest for southern pines in the U.S. For the last two years, FHP has worked closely with EMBRAPA to develop a detection, monitoring and biological control program. Through FHTET, a three year cooperative agreement was developed that would lead to the technology transfer and development of this multi-faceted program. Once developed, this program could then be used as a prototype for other South American countries that are/will be dealing with *Sirex* in the future. Activities in 2000-2001 in this program included: a). providing aerial detection survey training and assistance, b). conducting a feasibility study of aerial sketchmapping, c). evaluating remote sensing and LANDSAT imagery for determining host type location, and d) assistance and review of the biological control program for *Sirex*. Funding for the *Sirex* program was through the IAT, IP, FHP and EMBRAPA.

Cooperation and assistance with Mexico addresses FHP International Activity Plan Goals 2 (that North American countries have strong pest management programs), and 4 (that technical expertise is shared worldwide). Activities with Mexico included: a) continuing to provide aerial detection training to Mexican pest management specialists; b) providing information on establishing a gypsy moth detection and trapping program; c) providing assistance to Sierra Fria Resource area on southern pine beetle and forest management; d) participating in a cooperative study for protecting pine seed crops; e) determining the distribution of mistletoes, and; f) participating in the writing and preparation of a book on "Forest Diseases in Mexico". Funding for these activities was primarily from IAT, IP, and FHP.

A number of activities were continued in Russia, including the continued cooperation in trapping for Asian gypsy moth in Russian Far East ports. The USDA FS/APHIS Import Wood Risk Assessment Team focused on Assessments of pests in Eucalyptus from Chile, Argentina, Brazil, Uruguay and other South American countries, and on Eucalyptus from Australia.

Many of the participants prepared reports on their activities and these are available for further information.

The attached table summarizes the primary FHP international activities in FY2000 – 2001 by country. Funding is listed in order to show the cooperation and participation that goes to support FHP international activities. FHP contribution includes the salary of the people involved in the activity, or costs that were covered by their staff unit.

Additional information can be obtained either through the IAT or the regional FHP international activity coordinators listed below.

**IAT** – Dayle Bennett, Allan Bullard, Ken Knauer, Iral Ragenovich, Denny Ward

**Regional FHP Coordinators:**

WO and FHTET - Allan Bullard

R1 and R4– Dayle Bennett

R2 – Tom Eager

R3 – Douglas Parker

R5 – John Dale

R6 – Iral Ragenovich

R8 – Denny Ward

R10 – Ed Holsten

NA – Ken Knauer

Summary of Forest Health Protection Activities by Country and Participant for FY2000/2001.

COUNTRY	ACTIVITES	TECHNICAL SPECIALIST (S)	SOURCE OF FUNDING
Argentina	Cooperate on study of diseases of cypress trees in Patagonia and yellow cedar decline in Alaska	P.Hennon (R10)	PNW,FHP
Australia	Participate as members of USDA FS/APHIS Import Wood Risk Assessment and Mitigation Evaluation Team on Eucalyptus Risk Assessment including scientists from APHIS, and FS Research (2001)	DeNitto (R1) Eglitis (R6) Haugen (NA) Kliejunas (R5) Tkacz (WO)  Haverty Burdall (retired research) Micales  Podleckis Levy	FHP     Research   APHIS
	Attend IUFRO Working party meeting – Phytoththora Diseases of Forest Trees (2001)	E.Micheals Goheen and D.Goheen (R6) S.Frankel (R5)	IAT,FHP
	Volunteer from Australia helped with installation of permanent plots for dead yellowcedar mapping project (2001)	P.Hennon (R10)	FHP

Brazil	<p>Provide assistance to EMBRAPA for <i>Sirex noctillio</i> populations in southern Brazil.</p> <ul style="list-style-type: none"> <li>- Provide aerial survey training and assistance and do feasibility study of aerial sketchmapping (2000 &amp; 2001)</li> <li>- Evaluate remote sensing and LANDSAT imagery for determining host type location (2000 &amp; 2001)</li> <li>- Assistance and review of the biological control program for <i>Sirex</i> (2000-2001)</li> <li>- Finalize 3 year agreement (2001)</li> </ul> <p>Attend International Entomology Meeting in Iguassu Falls, Brazil and present poster on FHP International Activities and paper on deployment of tree resistance (2000)</p>	<p>A.Mason(FHTET) D.Reardon(FHTET), D.Haugen (NA), E. Johnson (R2), J.Ellenwood(FHTET) B.Ciesla (contractor)</p> <p>D.Twardus (NA) J. McMillin (R2)</p>	<p>FHP,IAT, IP, FHTET</p> <p>IAT, FHP</p>
Canada	<p>Participate in cooperative agreement with Canadian Forest Service, PFC for rearing DFTM Goose Lake strain and conducting Bio-assays of TM-BioControl (2000-2001)</p> <p>Attend Pacific Division of APS meeting in conjunction with Canada Phytopathological Society meetign in Victoria B.C. (2000)</p> <p>Conduct cooperative study with Univ. of Northern B.C. and R10 on Tomentosus root disease incidence (2000)</p> <p>Participate in field trip to Yukon</p>	<p>R.Reardon (FHTET) I.Ragenovich (R6)</p> <p>D.Goheen, E. Michaels Goheen (R6)</p> <p>L.Trummer (R10)</p> <p>E.Holston (R10)</p>	<p>FHTET,FHP</p> <p>FHP</p> <p>FHP</p> <p>FHP</p>

	Territory to evaluate in on-going spruce beetle outbreak (2000)	R.Burnside (DNR)	
Chile/Argentina/ Brazil/Uruguay and other South American Countries	Participate as members of USDA FS/APHIS Import Wood Risk Assessment and Mitigation Evaluation Team on Eucalyptus Risk Assessment including scientists from APHIS, and FS Research (2002-2001)	A.Eglitis (R6), B.Tkacz(WO), G.DeNitto(R1), D. Haugen (NA), J. Kliejunas R5)  Wallner (retired research) Hodges (retired research) Micales Burdshall (retired research)  Reeves Cohen	FHP  Research  APHIS
China	Assess changes in Chinese Forestry's administrative structure resulting from internal reorganization (2000)  Provide assistance on rearing and release of parasitoids of <i>Oracella acuta</i> (2000-2001)  Begin planning for 2002 China/US ALB meeting (2001)  Provide assistance on management of red turpentine beetle (2001)  Participate in providing information to 10 Chinese Forest Pest Management Directors on multi-region trip (2000)  Host Chinese visitors on DFTM mating disruption project (2001)	A. Bullard (FHTET), G. Man (IP), S. Andrus (VMPR)  S. Clarke (R8)  A. Bullard (FHTET), G. Man (IP)  P. Shea (PSW, retired) S.Smith (R5)  D.Hildebrand (R6) FHTET, J.Dale (R5) J.Kleijunas (R5)  Reardon (FHTET) Ragenovich (R6) Wenz (R5)	FHTET, IP, IAT, VMPR  FHTET, IP  FHTET, IP  PSW IAT, FHP  FHP  IP, FHP
Israel	Provide assistance in development of aerial survey	T. McConnell (R1)	Israel, FHP

	program (2000)		
Japan	Provide assistance on land management plan to Yokoto Air Base in Japan (2001)	P. Flanagan (R6 for NA)	FHP
Kenya & Tanzania	Coordinated USAID grant for Forest Health Monitoring Project in Eastern Arc mountains (2000-2001) <ul style="list-style-type: none"> <li>- Landsat imagery analyzed for forest cover change;</li> <li>- Fhm plots installed</li> </ul> Web page developed and maintained ( <a href="http://www.easternarc.org">www.easternarc.org</a> )	G.Hertel (NA, retired) D.Ward (R8) B. O'Connell (NE) C. Dull (WO) S. Madoffe (TZ) J. Mwangi (KN, deceased)	USAID, IP
Mexico	Provide aerial detection survey training to Mexican pest management specialists (2001)	E.Johnson (R2) Y.Barnett (R6) G.Smith (R6) K.Sprengel (R6)	IP, FHP
	Provide information and guidance on establishing a gypsy moth trapping and detection program to taxonomist and pest management specialist from Sanaidad Forestal(2001)	G.Smith (R6) D.Bridgwater (R6) I.Ragenovich (R6) Oregon Department of Agriculture	IAT, FHP
	Provide assistance to Sierra Fria Resource area on southern pine beetle and forest management (2001)	G.Smith (R6) S.Clarke (R8)	IP, FHP
	Participate in cooperative study on developing semiochemicals for protecting pine seed crops (2000-2001)	J.Stein (FHTET) N.Rappapprt (PSW)	IAT, FHTET PSW
	Colaborate in preparation of "Diseases of Mexico" book (2000-2001)	J.Kleijunas (R5)	IAT, FHP
Mexico/ Guatamala	In conjunction with NAUand U. of Guatamala and College of Forestry in Chiapas, determine distribution of parasitic plants in	J.Beatty (R6)	IAT,FHP

	Guatamala and Mexico (2001).		
Netherlands	Hosted a visiting scientist from Netherlands, Plant Protection Institute for review of SOD (2001)	S.Frankel (R5)	FHP
New Zealand	In conjuction with OSU, provide technical assistance and information exchange with New Zealand on Swiss needle cast in exotic and natural plantation Douglas -fir (2001)	J.Beatty (R6)	IAT,FHP
Nicaragua	Provide assistance on southern pine beetle outbreak	D.Ward (R8) W. Salazar (R8)	USAID, FHP
Pacific Islands & Fiji	Training for use of aerial photography(2000)  Provide assistance with mangrove evaluation, update website ( <a href="http://www.spcforests.org">www.spcforests.org</a> ); and recevied training on mangrove management by the Fiji Forest Deptarment. (2000-2001)	D.Ward (R8) W. Salazar (R8)  D.Ward (R8)	FHP,IAT  IAT, FHP, Pacifc Forest and Tree Support Program
Poland/ Lithuania	Cooperate in developoment of a risk rating system for <i>Ips typographus</i> (2000-2001)	S.Munson (R4) J.Negron (INT)	FHP,USAID
Russia	Continue developoment of Siberian Moth monitoring/detection system (2000)  Coordinate and work with APHIS on Russian Far Eastern ports Asian Gypsy Moth Project. (2000-2001)	I.Ragenovich,(R6)  Steve Munson (R4) Donna Leonard (R8)	FHP,APHIS, ARS  FHP



	Provide funding for 2 Russian scientists to attend IUFRO white pine blister rust meeting (2001)	S.Samman (WO)	IAT
Taiwan	Participate, as part of an American Team, in an Ecosystem management symposium in Taipei, including field trips on cypress forests and preparing recommendations on future research of the Taiwan Forest Research Institute (2000)	P.Hennon (R10)	PNW,FHP
General	Serve as member of the FHP International Activity Team	K.Knauer (NA), J.Ward(R8), D.Bennett(R4), A.Bullard (FHTET), I.Ragenovich(R6)	FHP
	Attend North American Forestry Commission, Forest Insect and Disease Study Group in Carmel (2001)	G.Smith (R6) R.Mangold (WO)	FHP
	Participated in hosting IUFRO working party on Forest Rusts (2001)	E.Michaels Goheen, D.Goheen (R6)	FHP
	Participated in hosting and international scientific research exchange for research on Sudden Oak Death (2001)	S.Frankel (R5)	FHP
	Participate in North American Forest Insect Work Conference held in Edmonton, Alberta (2001), and Western Forest Insect Work Conference (2000)	Various Regions	FHP
	Participate in Western		FHP

	International Forest Disease Work Conferences 2000 & 2001	Various Regions	